

L Number	Hits	Search Text	DB	Time stamp
1	5	(156/84 and sleeve) not (156/85 and sleeve)	EPO; JPO; DERWENT	2003/02/25 09:28
2	7	(156/84 and sleeve) not (156/85 and sleeve)	USOCR	2003/02/25 09:30
3	5	(156/84 and sleeve) not (156/85 and sleeve)	EPO; JPO; DERWENT	2003/02/25 09:32
4	6	156/85 and sleeve	EPO; JPO; DERWENT	2003/02/25 09:32
5	1	156/52 and sleeve	EPO; JPO; DERWENT	2003/02/25 09:33
6	10	156/85 and sleeve	USOCR	2003/02/25 09:35
7	9	156/52 and sleeve	USOCR	2003/02/25 09:44
8	87	156/52 and sleeve	USPAT; US-PGPUB	2003/02/25 09:46
9	32	156/52 and 156/85	USPAT; US-PGPUB	2003/02/25 10:47
10	8	(156/52 and 156/85 ) not (156/52 and sleeve)	USPAT; US-PGPUB	2003/02/25 10:47
12	68	(156/84 and sleeve) not (156/85 and sleeve)	USPAT; US-PGPUB	2003/02/25 10:48
13	63	((156/84 and sleeve) not (156/85 and sleeve) ) not ((156/52 and sleeve) or (156/52 and 156/85 ))	USPAT; US-PGPUB	2003/02/25 10:49
14	296	156/85 and sleeve	USPAT; US-PGPUB	2003/02/25 12:09
15	272	(156/85 and sleeve ) not ((156/52 and sleeve) or (156/52 and 156/85 ) or ((156/84 and sleeve) not (156/85 and sleeve) ))	USPAT; US-PGPUB	2003/02/25 13:43
16	21465	sleeve same (rectangular or rectangle or square)	USPAT; US-PGPUB	2003/02/25 13:44
17	11058	sleeve with (rectangular or rectangle or square)	USPAT; US-PGPUB	2003/02/25 13:44
18	989	(sleeve same (rectangular or rectangle or square)) and (shrink or shrinking or shrunk)	USPAT; US-PGPUB	2003/02/25 13:45
19	493	(sleeve with (rectangular or rectangle or square)) and (shrink or shrinking or shrunk)	USPAT; US-PGPUB	2003/02/25 13:45
20	211	(sleeve same (rectangular or rectangle or square)) same (shrink or shrinking or shrunk)	USPAT; US-PGPUB	2003/02/25 14:39
21	103	(sleeve with (rectangular or rectangle or square)) same (shrink or shrinking or shrunk)	USPAT; US-PGPUB	2003/02/25 14:39
22	108	((sleeve same (rectangular or rectangle or square)) same (shrink or shrinking or shrunk)) not ((sleeve with (rectangular or rectangle or square)) same (shrink or shrinking or shrunk))	USPAT; US-PGPUB	2003/02/25 14:36
23	1	264/32R	USPAT; US-PGPUB	2003/02/25 14:40
25	175	264/342R and sleeve	USPAT; US-PGPUB	2003/02/25 14:46
24	892	264/342R	USPAT; US-PGPUB	2003/02/25 14:41
26	314	264/342R	USOCR	2003/02/25 14:41
29	5	(156/84 and sleeve) not (156/85 and sleeve)	EPO; JPO; DERWENT	2003/02/25 14:42
27	41	264/342R and sleeve	USOCR	2003/02/25 14:42
30	158	(264/342R and sleeve) not (((sleeve with (rectangular or rectangle or square)) same (shrink or shrinking or shrunk)) or (((sleeve same (rectangular or rectangle or square)) same (shrink or shrinking or shrunk)) not ((sleeve with (rectangular or rectangle or square)) same (shrink or shrinking or shrunk))) or (156/52 and sleeve) or (156/52 and 156/85 ))	USPAT; US-PGPUB	2003/02/25 14:53
31	397	174/74A	USPAT; US-PGPUB	2003/02/25 14:53
32	11	174/74A and (sleeve same (rectangular or rectangle or square))	USPAT; US-PGPUB	2003/02/25 14:54
33	4	119R and (sleeve same (rectangular or rectangle or square))	USPAT; US-PGPUB	2003/02/25 15:03
34	3	129R and (sleeve same (rectangular or rectangle or square))	USPAT; US-PGPUB	2003/02/25 15:03
35	3	133R and (sleeve same (rectangular or rectangle or square))	USPAT; US-PGPUB	2003/02/25 15:03

36	38	133B and (sleeve same (rectangular or rectangle or square))	USPAT; US-PGPUB	2003/02/25 15:03
37	27	129B and (sleeve same (rectangular or rectangle or square))	USPAT; US-PGPUB	2003/02/25 15:07
39	0	264/342R and sleeve	EPO; JPO; DERWENT	2003/02/25 15:08
38	41	264/342R and sleeve	USOCR	2003/02/25 15:09
41	50	(156/51 and sleeve) not 156/52	USPAT; US-PGPUB	2003/02/25 15:10
40	28	156/50 and sleeve	USPAT; US-PGPUB	2003/02/25 15:15
42	3648	(conductor or stator or cable) and (sleeve same insulation)	USPAT; US-PGPUB	2003/02/25 15:16
43	10	(conductor adj bar) and stator and (sleeve same insulation)	USPAT; US-PGPUB	2003/02/25 16:31
45	21	((rectangle or rectangular or square) with conductor) and stator and (sleeve same insulation)	USPAT; US-PGPUB	2003/02/25 16:31
44	4	((rectangle or rectangular or square) with (conductor adj bar)) and stator and (sleeve same insulation)	USPAT; US-PGPUB	2003/02/25 16:30
46	6	((conductor adj bar) and stator and (sleeve same insulation)) not (((rectangle or rectangular or square) with (conductor adj bar)) and stator and (sleeve same insulation))	USPAT; US-PGPUB	2003/02/25 15:20
47	17	(((rectangle or rectangular or square) with conductor) and stator and (sleeve same insulation)) not (((conductor adj bar) and stator and (sleeve same insulation)) or (((rectangle or rectangular or square) with (conductor adj bar)) and stator and (sleeve same insulation)))	USPAT; US-PGPUB	2003/02/25 15:28
48	4	((rectangle or rectangular or square) with (conductor adj bar)) and stator and sleeve	USPAT; US-PGPUB	2003/02/25 16:30
50	56	((rectangle or rectangular or square) with conductor) and stator and sleeve	USPAT; US-PGPUB	2003/02/25 16:30
51	4	((rectangle or rectangular or square) with (conductor adj bar)) and stator and sleeve	USPAT; US-PGPUB	2003/02/25 16:20
49	39	(conductor adj bar) and stator and sleeve	USPAT; US-PGPUB	2003/02/25 16:19
52	52	(((rectangle or rectangular or square) with conductor) and stator and sleeve ) not ((conductor adj bar) and stator and sleeve )	USPAT; US-PGPUB	2003/02/25 16:09
53	0	("6531082").PN.	USPAT; US-PGPUB	2003/02/25 16:09
54	0	("6531082").PN.	USPAT; US-PGPUB	2003/02/25 16:10
55	0	("6531082").PN.	USPAT; US-PGPUB	2003/02/25 16:12
56	5	((("4403163") or ("5319276") or ("3780325") or ("3702499") or ("3634705")).PN.	USPAT; US-PGPUB	2003/02/25 16:12
57	1	(conductor adj bar) and stator and sleeve	EPO; JPO; DERWENT	2003/02/25 16:35
58	0	((rectangle or rectangular or square) with (conductor adj bar)) and stator and sleeve	EPO; JPO; DERWENT	2003/02/25 16:35
59	3	((rectangle or rectangular or square) with conductor) and stator and sleeve	EPO; JPO; DERWENT	2003/02/25 16:36
60	0	((rectangle or rectangular or square) with (conductor adj bar)) and stator and sleeve	EPO; JPO; DERWENT	2003/02/25 16:36
61	0	((rectangle or rectangular or square) with (conductor adj bar)) and stator and (sleeve same insulation)	EPO; JPO; DERWENT	2003/02/25 16:36
63	0	(conductor adj bar) and stator and (sleeve same insulation)	EPO; JPO; DERWENT	2003/02/25 16:36
62	2	((rectangle or rectangular or square) with conductor) and stator and (sleeve same insulation)	EPO; JPO; DERWENT	2003/02/25 16:36
66	41	((rectangle or rectangular or square) with conductor) and stator and sleeve	USOCR	2003/02/25 16:36
69	20	(conductor adj bar) and stator and (sleeve same insulation)	USOCR	2003/02/25 16:49
70	16	((rectangle or rectangular or square) with conductor) and stator and (sleeve same insulation)	USOCR	2003/02/25 16:37
64	94	(conductor adj bar) and stator and sleeve	USOCR	2003/02/25 16:37
65	2	((rectangle or rectangular or square) with (conductor adj bar)) and stator and sleeve	USOCR	2003/02/25 16:45

71	38	((rectangle or rectangular or square) with conductor) and stator and sleeve ) not (((conductor adj bar) and stator and sleeve ) or ((rectangle or rectangular or square) with (conductor adj bar)) and stator and sleeve ))	USOCR	2003/02/25 16:45
67	2	((rectangle or rectangular or square) with (conductor adj bar)) and stator and sleeve	USOCR	2003/02/25 16:49
68	1	((rectangle or rectangular or square) with (conductor adj bar)) and stator and (sleeve same insulation)	USOCR	2003/02/25 16:49
72	0	((conductor adj bar) and stator and (sleeve same insulation)) not (((conductor adj bar) and stator and sleeve ) or ((rectangle or rectangular or square) with (conductor adj bar)) and stator and sleeve ) or ((rectangle or rectangular or square) with conductor) and stator and sleeve ) or ((rectangle or rectangular or square) with (conductor adj bar)) and stator and sleeve ) or ((rectangle or rectangular or square) with (conductor adj bar)) and stator and (sleeve same insulation)))	USOCR	2003/02/25 16:50
73	0	((rectangle or rectangular or square) with conductor) and stator and (sleeve same insulation)) not (((conductor adj bar) and stator and (sleeve same insulation)) or ((conductor adj bar) and stator and sleeve ) or ((rectangle or rectangular or square) with (conductor adj bar)) and stator and sleeve ) or ((rectangle or rectangular or square) with conductor) and stator and sleeve ) or ((rectangle or rectangular or square) with (conductor adj bar)) and stator and sleeve ) or ((rectangle or rectangular or square) with (conductor adj bar)) and stator and (sleeve same insulation)))	USOCR	2003/02/25 16:57
74	1621	(sheath or sleeve) and stator and conductor	USPAT; US-PGPUB	2003/02/25 16:59
75	73	(sheath or sleeve) and stator and (conductor with (rectangle or rectangular or square))	USPAT; US-PGPUB	2003/02/25 16:59
76	31	sheath and stator and (conductor with (rectangle or rectangular or square))	USPAT; US-PGPUB	2003/02/25 17:05
77	4	(sheath with (rectangle or rectangular or square)) and stator and conductor	USPAT; US-PGPUB	2003/02/25 17:13
78	16	sheath and stator and (conductor with (rectangle or rectangular or square))	USOCR	2003/02/25 17:15
79	4	(sheath with (rectangle or rectangular or square)) and stator and conductor	USOCR	2003/02/25 17:16
80	2	(sheath with (rectangle or rectangular or square)) and stator and conductor	EPO; JPO; DERWENT	2003/02/25 17:25
81	2	sheath and stator and (conductor with (rectangle or rectangular or square))	EPO; JPO; DERWENT	2003/02/25 17:25
-	13	baumann-thomas.in.	USPAT; US-PGPUB	2003/02/24 14:53
-	4	oesterheld-joerg.in.	USPAT; US-PGPUB	2003/02/24 14:54
-	0	oesterheld-joerg.in. not baumann-thomas.in.	USPAT; US-PGPUB	2003/02/24 14:54
-	0	gasparini-roco.in.	USPAT; US-PGPUB	2003/02/24 14:54
-	4	gasparini-rico.in.	USPAT; US-PGPUB	2003/02/24 14:54
-	1	gasparini-rico.in. not baumann-thomas.in.	USPAT; US-PGPUB	2003/02/24 14:59
-	47952	stator	USPAT; US-PGPUB	2003/02/24 14:59
-	265931	conductor	USPAT; US-PGPUB	2003/02/24 14:59
-	452776	bar	USPAT; US-PGPUB	2003/02/24 14:59
-	175857	winding	USPAT; US-PGPUB	2003/02/24 14:59
-	842342	rectangle or rectangular or square	USPAT; US-PGPUB	2003/02/24 15:00
-	3496	(shrink or shrunk or shrinking) near5 sleeve	USPAT; US-PGPUB	2003/02/24 17:19

-	28	((stator or conductor) with (bar or winding)) and (rectangle or rectangular or square ) and ((shrink or shrunk or shrinking) near5 sleeve)	USPAT; US-PGPUB	2003/02/24 15:05
-	36	(stator or conductor) and ((rectangle or rectangular or square ) same ((shrink or shrunk or shrinking) near5 sleeve))	USPAT; US-PGPUB	2003/02/24 15:02
-	1	((stator or conductor) with (bar or winding)) and ((rectangle or rectangular or square ) with ((shrink or shrunk or shrinking) near5 sleeve))	USPAT; US-PGPUB	2003/02/24 15:02
-	1	(stator or conductor) and ((rectangle or rectangular or square ) with ((shrink or shrunk or shrinking) near5 sleeve))	USPAT; US-PGPUB	2003/02/24 15:02
-	6	((stator or conductor) with (bar or winding)) and ((rectangle or rectangular or square ) same ((shrink or shrunk or shrinking) near5 sleeve))	USPAT; US-PGPUB	2003/02/24 15:02
-	22	((stator or conductor) with (bar or winding)) and (rectangle or rectangular or square ) and ((shrink or shrunk or shrinking) near5 sleeve)) not (((stator or conductor) with (bar or winding)) and ((rectangle or rectangular or square ) same ((shrink or shrunk or shrinking) near5 sleeve))) or ((stator or conductor) and ((rectangle or rectangular or square ) with ((shrink or shrunk or shrinking) near5 sleeve))))	USPAT; US-PGPUB	2003/02/24 15:35
-	34	((stator or conductor) and ((rectangle or rectangular or square ) same ((shrink or shrunk or shrinking) near5 sleeve))) not "189"	USPAT; US-PGPUB	2003/02/24 15:35
-	36	((stator or conductor) and ((rectangle or rectangular or square ) same ((shrink or shrunk or shrinking) near5 sleeve))) not (((stator or conductor) with (bar or winding)) and (rectangle or rectangular or square ) and ((shrink or shrunk or shrinking) near5 sleeve)) not (((stator or conductor) with (bar or winding)) and ((rectangle or rectangular or square ) same ((shrink or shrunk or shrinking) near5 sleeve))) or ((stator or conductor) and ((rectangle or rectangular or square ) with ((shrink or shrunk or shrinking) near5 sleeve))))	USPAT; US-PGPUB	2003/02/24 16:21
-	9307	(stator or conductor) and sleeve	EPO; JPO; DERWENT	2003/02/24 16:21
-	276	(stator or conductor) and sleeve and (shrink or shrinking or shrunk)	EPO; JPO; DERWENT	2003/02/24 16:22
-	246	(stator or conductor) and (sleeve same (shrink or shrinking or shrunk))	EPO; JPO; DERWENT	2003/02/24 16:22
-	2	(stator or conductor) and (sleeve same (shrink or shrinking or shrunk) same (rectangle or rectangular or square))	EPO; JPO; DERWENT	2003/02/24 16:24
-	74	(stator or conductor) and (sleeve same (shrink or shrinking or shrunk) same (rectangle or rectangular or square))	USOCR	2003/02/24 16:55
-	4	(("5081695") or ("4722590") or ("4057448") or ("3810802")).PN.	USPAT; US-PGPUB	2003/02/24 16:57
-	524	156/52	USPAT; US-PGPUB	2003/02/24 16:58
-	1150	156/85	USPAT; US-PGPUB	2003/02/24 16:58
-	691	156/84	USPAT; US-PGPUB	2003/02/24 16:58
-	32	156/52 and 156/85	USPAT; US-PGPUB	2003/02/25 10:47
-	0	156/52 and 156/85	EPO; JPO; DERWENT	2003/02/24 17:19
-	296	156/85 and sleeve	USPAT; US-PGPUB	2003/02/25 12:08
-	68	(156/84 and sleeve) not (156/85 and sleeve)	USPAT; US-PGPUB	2003/02/25 14:42

\$4.18 Estimated cost File351  
 \$0.40 TELNET  
 \$4.58 Estimated cost this search  
 \$5.19 Estimated total session cost 0.237 DialUnits

File 345:Inpadoc/Fam.& Legal Stat 1968-2001/UD=200127  
 (c) 2001 EPO

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 \$5.95 Estimated total session cost 0.356 DialUnits

File 351:Derwent WPI 1963-2001/UD,UM &UP=200140  
 (c) 2001 Derwent Info Ltd

\*File 351: Price changes as of 1/1/01. Please see HELP RATES 351.  
 72 Updates in 2001. Please see HELP NEWS 351 for details.

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DIALOG(R)File 351:Derwent WPI

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010325355

WPI Acc No: 1995-226629/199530

Electrical insulation material useful e.g. for conductor in motor or generator - contains mica micro-flakes in heat-resistant thermoplastic resin matrix, esp. polysulphone, suitable for high voltage, relatively high temp. operation

Patent Assignee: ABB RES LTD (ALLM )

Inventor: BOESE D; KESER G; KOENIG F

Number of Countries: 009 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 660336	A2	19950628	EP 94810693	A	19941205	199530 B
DE 4344044	A1	19950629	DE 4344044	A	19931223	199531
CA 2135566	A	19950624	CA 2135566	A	19941110	199538
CZ 9403234	A3	19950712	CZ 943234	A	19941219	199538
EP 660336	A3	19951025	EP 94810693	A	19941205	199617

Priority Applications (No Type Date): DE 4344044 A 19931223

Cited Patents: No-SR.Pub; 2.Jnl.Ref; DE 8905612; JP 52010343; US 4060451

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 660336	A2	G	10	H01B-003/04	
Designated States (Regional): AT CH DE FR GB IT LI					
DE 4344044	A1		9	H01B-003/42	
CA 2135566	A			H01B-003/04	
CZ 9403234	A3			H01B-003/42	
EP 660336	A3			H01B-003/04	

Abstract (Basic): EP 660336 A

Electrical insulation material has a matrix of heat-resistant thermoplastic resin(s) (I) contg. insulating mineral flakes, pref. mica microflakes (II). The novel features are that (a) (II) have a particles size < 20 microns; and (b) the material is made from a dispersion of (I) particles and (II), which is coated on a support, then the coated support is dried at a temp. at which (I) flows.

Also claimed are a conductor with a sheath of this material and its. prodn..

Pref. (I) comprises polyimide, polycarbonate, PET, polyethylene naphthalate, PPS, PPO, polyether-imide, PPEK, polypropylene, polyphenyl sulphone, polyaryl sulphone or polyether sulphone, esp. polysulphone. (II) is muscovite and/or phlogopite. The insulation material may also contain (semi)conducting particles, esp. conductive particles of mica-metal oxide or metal oxide pigment. The support is reinforced polyester fleece or woven glass fibre fabric. The insulation material pref. is a film obtd. by (1) extrusion of a green film of (I) and (II) and (2) rolling onto a support, providing mechanical reinforcement, on a calender. (I) contains 20-40 wt.% (II).

USE - The material is esp. useful for insulating conductors used in electrical machines, e.g. motors or generators, including slot insulation, and also for chokes.

ADVANTAGE - The material is free from partial discharges, even at high voltage and relatively high operating temps..

Dwg.0/5

Derwent Class: A28; A32; A85; V02; V06; X11; X12

International Patent Class (Main): H01B-003/04; H01B-003/42

International Patent Class (Additional): H01B-001/16; H01B-003/08;  
H01B-003/18; H01B-003/38; H01B-003/48; H01B-013/08; H02K-003/34;  
H02K-015/10

?s pn=ep 059402

S2 0 PN=EP 059402

?s pn=ep 59402

S3 1 PN=EP 59402

?t s3/7

3/7/1

DIALOG(R) File 351:Derwent WPI

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WPI Acc No: 1982-M0725E/198237

**Coil for stator or rotor slots of rotating machine - has conductor bundle sheathed in resin-impregnated shrink-fit sheath**

Patent Assignee: ASEA AB (ALLM )

Inventor: LOEVGREN G; ROTHMAN B

Number of Countries: 007 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 59402	A	19820908	EP 82101310	A	19820220	198237 B
SE 8101400	A	19821004				198242

US 4405553	A	19830920	198340
EP 59402	B	19850213	198507
DE 3262247	G	19850328	198514

Priority Applications (No Type Date): SE 811400 A 19810304  
 Cited Patents: CH 454441; DE 1438304; DE 2538702; GB 1061802  
 Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 59402	A	G	10		
Designated States (Regional): CH DE FR GB LI					
EP 59402	B	G			
Designated States (Regional): CH DE FR GB LI					

Abstract (Basic): EP 59402 A

The coil consists of a bundle (23) of conductors 9 (22) enclosed in insulation (13). The coil is made by placing this assembly inside shaping pieces (25,26). The shaping pieces are enclosed in a shrink-fit material (27) and heated to shrink the material. The assembly is then impregnated with resin.

The shrink-fit material is porous to impregnating resin. The assembly is placed in a jig (28-31) that gives it its final shape and is heated to shrink the material. The gaps (32,33) between the shaping pieces are preserved throughout the process. When removed from the jig the coil retains its shape.

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Derwent Class: X11

International Patent Class (Additional): B29B-003/00; H02K-015/12

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20jul01 10:25:55 User034901 Session D10856.4

Sub account: 033275-214

\$8.32 0.353 DialUnits File351

\$8.04 2 Type(s) in Format 7

\$8.04 2 Types

\$16.36 Estimated cost File351

\$0.40 TELNET

\$16.76 Estimated cost this search

\$22.71 Estimated total session cost 0.709 DialUnits

### Status: Signed Off. (5 minutes)